Application No.:10/805,156

Response to Office Action of 07/26/05

Attorney Docket No. 4570.91

In the Claims:

1. (Currently Amended) A blower comprising:

a blower housing having a chamber;

an impeller rotatably received in said chamber, said impeller having a plurality

of blades with a blade gap therebetween; and

at least one resonator ring associated with one of said blower housing and said

impeller, said resonator ring having a plurality of resonator cavities fluidly connected

to at least one of said blade gaps for absorbing noise generated by said plurality of

blades.

2. (Currently Amended) The blower according to claim 1, wherein said impeller has a

plurality blades with a blade gap therebetween; wherein said resonator ring includes

said plurality of resonator cavities, and wherein a number of said blade gaps

corresponds to a number of said plurality of resonator cavities.

3. (Cancelled)

4. (Original) The blower according to claim 1, wherein said impeller comprises;

a hub; and

a disc radially extending from said hub;

said resonator ring disposed between said disc and said plurality of blades.

5. (Original) The blower according to claim 4, wherein said impeller has a plurality of

blades with a blade gap therebetween; and wherein each said resonator cavity is

fluidly connected to one of said corresponding blade gaps.

6. (Original) The blower according to claim 5, wherein said resonator ring comprises:

a facing surface, said facing surface having said resonator cavity which

comprises a neck fluidly connected to a pocket, wherein said pocket is at least

somewhat larger than said neck.

-3-

Application No.:10/805,156

Response to Office Action of 07/26/05

Attorney Docket No. 4570.91

7. (Original) The blower according to claim 6, wherein at least one of said resonator

cavities is filled with damping material.

8. (Original) The blower according to claim 6, further comprising:

a ring plate secured to said disc and at least partially enclosing said resonator

cavity.

9. (Original) The blower assembly according to claim 1, wherein said impeller has two

resonator rings on each side thereof; each said resonator ring having a plurality of

cavities; said impeller having a plurality of blades with a blade gap between each,

wherein said plurality of cavities of each said resonator ring are fluidly connected to

one of said corresponding blade gaps.

10. (Currently Amended) A blower comprising:

a motor having a rotatable shaft;

a blower housing having a chamber, said blower housing having an inlet

opening and an outlet opening;

a sleeve forming each of said inlet and outlet openings, said sleeve having an

interior wall;

an impeller secured to said shaft and received in said blower housing; and

a baffle assembly sub-dividing at least one of said inlet and said outlet openings

and comprising a baffle plate extending between substantially opposite sides of said

interior wall.

11. (Cancelled)

12. (Currently Amended) The blower according to claim 11 10, wherein said baffle plate

comprises:

a wide edge connected to one side of said interior wall;

a narrow edge connected to an opposite side of said interior wall;

-4-

a housing edge connecting said wide edge to said narrow edge, said housing

edge facing away from said impeller; and

an impeller edge connecting said wide edge to said narrow edge, said impeller

edge facing said impeller.

13. (Original) The blower according to claim 12, wherein said impeller has a plurality of

radially extending impeller blades, wherein said baffle plate comprises a blade side

which substantially faces said impeller blades.

14. (Original) The blower according to claim 13, wherein said baffle plate sub-divides at

least one of said inlet and outlet openings into a primary flow aperture and a

secondary flow aperture.

15. (Original) The blower according to claim 14, wherein said chamber is substantially

toroidal and has an endbell side adjacent said motor and a blower cover side away

from said motor, and wherein said baffle plate primarily directs air flow generated by

said impeller facing said motor side through said primary flow aperture and directs

airflow generated by said impeller facing said cover side primarily through said

secondary flow aperture.

16. (Original) The blower according to claim 15, further comprising:

a wing extending from said interior wall into said primary flow aperture.

17. (Original) The blower according to claim 16, wherein said wing is substantially

perpendicular to said baffle plate.

18. (Original) The blower according to claim 17, wherein said wing has wing edges which

converge to a wing tip, wherein said wing tip points toward said narrow edge.

19. (Currently Amended) The blower according to claim 17, further comprising:

-5-

a wing support bracket connected between seed win said wing and said interior wall and extending toward said narrow edge.

(Currently Amended) The blower according to claim 10, further comprising: 20.

a sleeve forming each of said inlet and outlet openings, said sleeve having an interior wall; and

a wing extending from said inferior interior wall and into one of said openings.

(Original) The blower according to claim 20, wherein said impeller has plurality of 21. radially extending impeller blades, wherein said wing is positioned so as to primarily face said impeller blades.

(Original) The blower according to claim 10, wherein said impeller has a plurality of 22. blades with a gap therebetween each of said blades, and wherein said impeller has a plurality of resonator cavities that correspond with said gaps.

23. (Original) A blower comprising:

a motor having a rotatable shaft;

an blower housing having a chamber, said blower housing having an inlet opening and an outlet opening;

an impeller secured to said rotatable shaft and received in said blower housing, said impeller having a plurality of blades with a gap therebetween and at least one resonator cavity fluidly connected with each of said gaps; and

a baffle assembly sub-dividing at least one of said inlet and outlet openings.

(New) A blower comprising: 24.

a motor having a rotatable shaft;

a blower housing having a chamber, said blower housing having an inlet opening and an outlet opening;

a sleeve forming each of said inlet and outlet openings, said sleeve having an interior wall;

Application No.:10/805,156

Response to Office Action of 07/26/05

Attorney Docket No. 4570.91

a wing extending from said interior wall and into said one of openings; an impeller secured to said shaft and received in said blower housing; and a baffle assembly sub-dividing at least one of said inlet and said outlet openings.

25. (New) The blower according to claim 24, wherein said impeller has plurality of radially extending impeller blades, wherein said wing is positioned so as to primarily face said impeller blades.